IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Roberts et al. Docket No.: 2309.002A

Serial No.: Unknown Filed: Unknown

Title: MICA TAPE HAVING MAXIMIZED MICA CONTENT

To: Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

COMMUNICATION TO OFFICE UNDER 37 C.F.R. §1.56
REPORT OF EXPERIMENTAL ACTIVITIES

Dear Sir:

This report is filed to fulfill the obligation under 37 C.F.R. §1.56 to disclose information that may be material to patentability. Certain experimental activities related to the above-identified provisional U.S. patent application are described herein.

CHRONOLOGY

General Electric Company (GE) had invited applicants to offset a product, i.e., to develop a product similar to one that GE was purchasing from another vendor. The product was developed in USSAMICA's Rutland, Vermont manufacturing facility. The trial product was assigned a research and development number (CM 246) indicating that Isovolta considered the product to be an experimental material. (See Doc. 4.0, attached).

May 13, 2003

1) At the customer's request the product was tested for "tapability" using robotic equipment at GE's site in Erie, Pennsylvania. Applicant(s) did not have access to similar equipment in their own manufacturing facility for testing the product.

2) Applicant was present at all times when testing was performed at GE.

3) At the conclusion of the testing, applicant removed the experimental material from the equipment on which it was being tested. Applicant removed the remainder of unused product from the testing site and returned it to his manufacturing facility.

4) GE required that applicant(s) perform electrical testing on the experimental material to determine its voltage endurance before approving it for use in their facility. Subsequently, applicant(s) fabricated and began testing a coil wrapped with a tape according to the invention in their manufacturing facility. The electrical testing was ongoing at the time that the provisional application was filed.

June 16, 2003 At the request of Ideal Electric Company (Ideal), applicant demonstrated and tested the material. The project was assigned a research and development number (CM 122) which designated that the product being used was an experimental material.

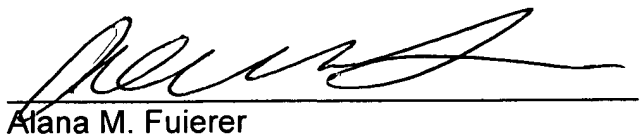
February 26, 2004 A Product Applications Report documenting the results of testing on coils prepared using the tape developed for Ideal, CM 122 tape, was completed.

May 5, 2004 At the request of General Electric Canada (unrelated to testing at GE Erie), the material was first demonstrated at GE Hydro in Beloeil, Quebec, Canada.

June 2004 Ideal placed a small trial order to purchase material for scale-up testing at their Ohio facility.

July 16, 2004 Provisional application filed.

Respectfully submitted,



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Dated: December 1, 2005

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DOCUMENT & DATA CONTROL PROCEDURE

This procedure details the method of generating, approving, and issuing controlled quality system documents and data. (Note: Further reference to documents in this procedure also includes the implied reference to data).

A controlled document is a procedure or other document whose circulation is limited and assured, which is approved, and which is included on the controlled document index.

The controlled documents and data are marked with the following:

1. Isovolta, Inc.
2. Document number (see numbering system below).
3. Document name (unique to the plant).
4. Date of the document (current revision).
5. Reviewer's signature and date.
6. Approval signature and date.
7. Other confirmation signatures or initials as required.

Exception: On Raw Material Specifications, the individual reviewing the document will also be the one approving the document.

Note: Production Standards and Manufacturing Specifications are considered one in the same.

The controlled documents are numbered with a two part number. The portion before the decimal point is the ISO 9001 element number most appropriate to the document. The portion after the decimal point is a unique number, see Document 4.0.1. A number unique to this plant, such as a part number, may also be used.

Approval of documents is by the ISO Management Representative or VP Operations. Other approvals may be required and will be identified on the appropriate documents. In all cases the approval date is the issue date.

Documents approved prior to implementation of this policy will remain in effect until there is a reason for revision. At that time they will be approved and issued according to this procedure.

Isovolta Incorporated controls "controlled documents" by an index. This index lists the numbers, names, revision date, distribution, and previous revision date.

Each revised document will have a brief statement indicating the nature of each revision.

The end of a controlled document is indicated by the words "end of document" or other appropriate means such as "page # of #."

Document revisions are approved in the same manner as the original documents.

Documents are designated obsolete by a "revision" designating them obsolete. A note of this will be maintained in the index for a year after the document is removed from circulation. A red line through the document number in the upper right hand corner may designate obsolete documents.

The Document Control Element Champion will see that updated copies are distributed as noted in Document 4.0.3. It is up to the individual on distribution for the "controlled document" to make sure that all obsolete documents are removed. The revision date on the document will either be the same as listed in the index or more recent.

Re-issuance of the entire controlled quality system document is required when deemed necessary by the Document Control Champion, the Element Champion or the ISO Management. Representative. Updates and or additions to controlled documents require that all indexes be updated within 30 days of the issue date of the relevant document. (Applies to all controlled documents issued or revised after June 21, 1996).

Any changes to the Quality System Manual need to be approved by the VP Operations. Significant changes have to be reviewed and approved by the registrar.

Training Manuals

Training manuals will be controlled by a controlled index only. Pages in the Training Manuals will not be identified like other controlled documents.

Electronic Documents

The ISO procedures and manufacturing specifications are available in the form of electronic documentation. Electronic documentation will be maintained and controlled by the issuer and will agree with the signed master (hardcopy) in both content and revision date. Controlled electronic documentation will be protected from unauthorized changes. Unsigned printed copies of controlled electronic data are considered uncontrolled and therefore not valid.

Documents of External Origin
The following documents will be maintained with the latest revision supplied by the originating source but copies will not be distributed. It is the responsibility of the originator to control these documents and supply updated revisions.

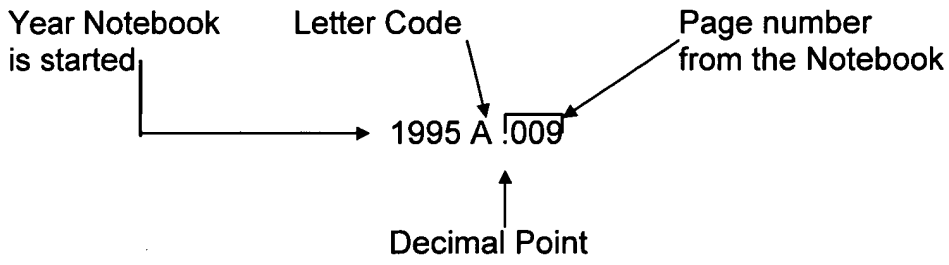
Customer Specifications - These specifications are reviewed upon receipt for changes that may affect documentation at Isovolta, Inc. and are then filed. Any changes to documentation will be incorporated into the specific specification or procedure. Copies of older revisions may also be kept as reference and for resolution of differences with the customer.
Note: Customer Specifications are for reference only and are thus uncontrolled.

Forms Control
A *Master Index of Forms* (Document 4.0.4) will be maintained. Any changes to a form will be reflected by a Rev. Date change or a change to the form number. All Master Forms will be kept in a notebook in the QC Lab. Pre-printed "forms" not listed in the Master Index are considered worksheets and will not be controlled.

Design Control

Lab Notebooks

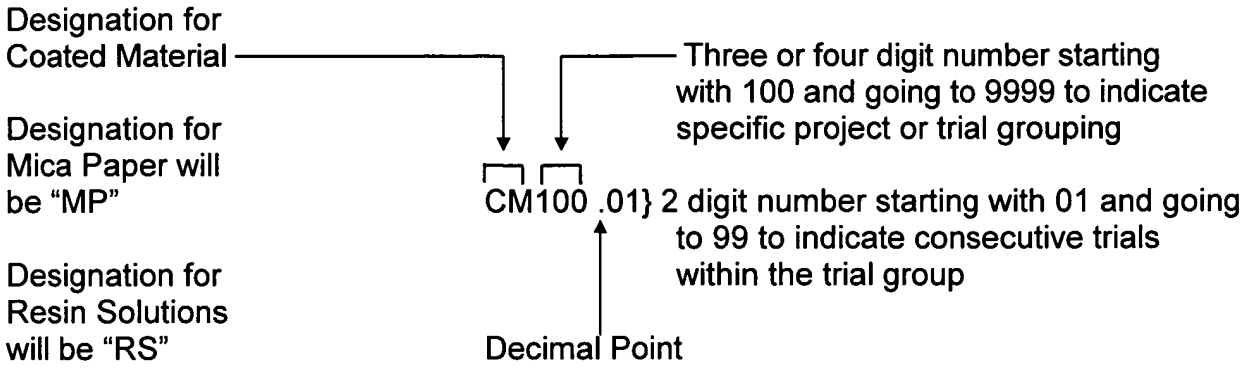
The notebook will contain consecutive numbered pages with the year that it is started identified on the outside of the notebook followed by a letter. The letter code will be issued alphabetically and will designate a different book. If a Lab Notebook is filled up during the year that it is started, another notebook will be issued using the next available letter code. Specific experiments in the notebook will be identified as follows:



A master index will be maintained by the Process / Product Engineer with the year the notebook is issued, the letter code, and the individual receiving the Lab Notebook.

R&D Trials

Trials will be numbered by an alphanumeric system. The two (2) letter prefix will designate the type of product, the three or four digit number before the decimal point will designate the specific project number, and the two digit suffix after the decimal point will indicate consecutive trials. The two digit suffix may be repeated only for confirmation trials that are subsequently being supplied to a customer. An example is as follows:



Designation for Raw Materials will be "RM". A letter will follow the 3 digit project number and will be assigned alphabetically as needed.

Temporary Instructions

Any time there is a need to add or change work instructions on a temporary basis, either in the manufacturing area, the inspection and test area, or any other area that may require temporary documentation, a *Temporary Instruction (TI)* will be used to control the issuance, content, and expiration of those instructions. *TI's* will be maintained in a notebook and controlled via a Temporary Instruction number (i.e. TI96-01). Any management person may issue and approve a *TI* in his or her area of responsibility and that person is also responsible for removing the document from use after it expires plus either reissuing it as a new *TI*, incorporating it into a specification, procedure, test method, or other documentation. If the *TI* is used to collect additional QC or Process Data, that documentation must reference the TI Number and the expiration date.

The maximum amount of time that a *Temporary Instruction* may be effective is 30 days. The issuer may reissue the original instruction up to 3 times by signing and dating the instruction and adding a new expiration date.

Note: A Temporary Instruction can not be used to change product specification.

Revision Changes:

12-17-03	Update job titles and format. Delete ETR's. Update Elec. Documents. Add note on Prod. Stds and Mfg. Specs.
6-11-03	Add paragraph on Engineering Trials.